

ABSTRACT

An air filtering device is presented with a face mask of nonporous material, the face mask held onto the user's head by standard elastic straps. The face mask has a flexible gasket about its perimeter to provide an airtight seal between the mask and the user's face. The face mask has an exhaust filter that lets exhaled air out of the mask, but does not let unfiltered air into the mask. A flexible tube enters the face mask at one end and enters an air filtering assembly on the opposite end. The air filtering assembly is enclosed in a housing with the housing having an air intake opening. The air filtering assembly has an air moving device such as a fan or pump, a carbon filter cartridge, a particulate matter filter, a battery power supply, and an on-off switch.

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